

Name: Key TP: \_\_\_\_\_

"Swag is earned not given!"  
Make sure you can prove  
every fact on this sheet)



List the 2 QUOTIENT identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

List the 3 RECIPROCAL identities

$$\csc \theta = \frac{1}{\sin \theta}$$

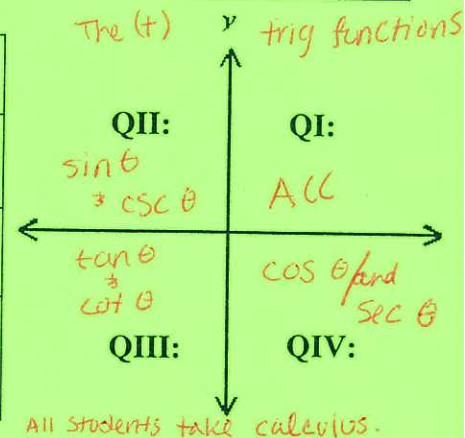
$$\sec \theta = \frac{1}{\cos \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$

List the PYTHAGOREAN THEOREM  
in terms of sine and cosine of  $\theta$ :

$$\sin^2 \theta + \cos^2 \theta = 1$$

$\theta$ (Degrees)	$\theta$ (Radians)	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
30°	$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$	2	$\frac{2\sqrt{3}}{3}$	$\sqrt{3}$
45°	$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1	$\sqrt{2}$	$\sqrt{2}$	1
60°	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$	$\frac{2\sqrt{3}}{3}$	2	$\frac{\sqrt{3}}{3}$



$\theta$ (Degrees)	$\theta$ (Radians)	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
0°	0	0	1	0	undefined	1	undefined
90°	$\frac{\pi}{2}$	1	0	undefined	1	undefined	0
180°	$\pi$	0	-1	0	undefined	-1	undefined
270°	$\frac{3\pi}{2}$	-1	0	undefined	-1	undefined	0
360°	$2\pi$	0	1	0	undefined	1	undefined

**PUSH IT TO THE LIMIT.**